

## 4.3-10 Male to 4.3-10 Male Low PIM Cable 36 Inch Length Using TCOM-600 Coax with Times Microwave Components



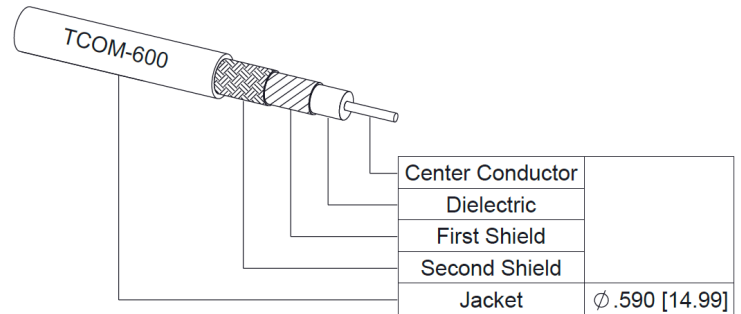
### PE3W18867-36

#### Configuration

- Connector 1: 4.3-10 Male
- Connector 2: 4.3-10 Male
- Cable Type: TCOM-600
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Low PIM: -155 dBc Max
- Shielding Effectivity > 100 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3W18867-36 4.3-10 male to 4.3-10 male 36 inch cable using TCOM-600 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 4.3-10 to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-600 coax. The PE3W18867-36 4.3-10 male to 4.3-10 male cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -155 dBc. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 100 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

#### Electrical Specifications

| Description                                | Minimum | Typical      | Maximum | Units        |
|--------------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                            | DC      |              | 6       | GHz          |
| VSWR                                       |         |              | 1.4:1   |              |
| Velocity of Propagation                    |         | 87           |         | %            |
| RF Shielding                               | 100     |              |         | dB           |
| Group Delay                                |         | 1.17 [3.84]  |         | ns/ft [ns/m] |
| Passive Intermodulation                    |         |              | -155    | dBc          |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz |         |              |         |              |
| Capacitance                                |         | 23.4 [76.77] |         | pF/ft [pF/m] |
| Inductance                                 |         | 0.058 [0.19] |         | uH/ft [uH/m] |

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#### Electrical Specifications

| Description                   | Minimum | Typical     | Maximum | Units                 |
|-------------------------------|---------|-------------|---------|-----------------------|
| DC Resistance Inner Conductor |         | 0.53 [1.74] |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 1.52 [4.99] |         | Ohms/1000ft [Ohms/Km] |
| Jacket Spark                  |         |             | 8,000   | Vrms                  |

#### Specifications by Frequency

| Part Number   | Length                   | Description           | F1    | F2    | F3    | F4    | F5    | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|-------|--------------|
|               |                          | Frequency             | 250   | 500   | 1000  | 2500  | 6000  | MHz   |              |
| PE3W18867     | Custom Lengths Available | Insertion Loss (Typ.) | 0.012 | 0.018 | 0.027 | 0.046 | 0.077 | dB/ft |              |
|               |                          |                       | 0.04  | 0.06  | 0.09  | 0.16  | 0.26  | dB/m  |              |
| PE3W18867-24  | 24 In                    | Insertion Loss (Typ.) | 0.23  | 0.24  | 0.26  | 0.3   | 0.36  | dB    | 0.335        |
| PE3W18867-36  | 36 In                    | Insertion Loss (Typ.) | 0.24  | 0.26  | 0.29  | 0.34  | 0.44  | dB    | 0.472        |
| PE3W18867-48  | 48 In                    | Insertion Loss (Typ.) | 0.25  | 0.28  | 0.31  | 0.39  | 0.51  | dB    | 0.609        |
| PE3W18867-120 | 120 In                   | Insertion Loss (Typ.) | 0.32  | 0.38  | 0.47  | 0.66  | 0.97  | dB    | 1.431        |
| PE3W18867-180 | 180 In                   | Insertion Loss (Typ.) | 0.38  | 0.47  | 0.61  | 0.89  | 1.36  | dB    | 2.116        |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

|                             |                |
|-----------------------------|----------------|
| Loss due to Connector 1:    | 0.1 dB         |
| Loss due to Connector 2:    | 0.1 dB         |
| Base Weight:                | 0.197 pounds   |
| Additional Weight per Inch: | 0.01142 pounds |

#### Mechanical Specifications

##### Cable Assembly

|                |                     |
|----------------|---------------------|
| Length         | 36 in [914.4 mm]    |
| Width/Diameter | .5 in [12.7 mm]     |
| Weight         | 0.472 lbs [214.1 g] |

##### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | TCOM-600                   |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper Clad Aluminum       |
| Dielectric Type                      | PE (F)                     |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Tinned Copper Braid        |
| Jacket Material                      | PE, Black                  |
| Jacket Diameter                      | 0.59 in [14.99 mm]         |
| One Time Minimum Bend Radius         | 1.5 in [38.1 mm]           |
| Repeated Minimum Bend Radius         | 6 in [152.4 mm]            |
| Bending Moment                       | 2.75 lbs-ft [3.73 N-m]     |
| Flat Plate Crush                     | 60 lbs/in [1.07 Kg/mm]     |
| Tensile Strength                     | 350 lbs [158.76 Kg]        |

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#### Connectors

| Description                       | Connector 1      | Connector 2      |
|-----------------------------------|------------------|------------------|
| Type                              | 4.3-10 Male      | 4.3-10 Male      |
| Impedance                         | 50 Ohms          | 50 Ohms          |
| Configuration                     | Straight         | Straight         |
| Mating Cycles                     | 500              | 500              |
| Contact Material and Plating      | Brass, Silver    | Brass, Silver    |
| Dielectric Type                   | PTFE             | PTFE             |
| Body Material and Plating         | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |

#### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

### 4.3-10 Male to 4.3-10 Male Low PIM Cable 36 Inch Length Using TCOM-600 Coax with Times Microwave Components



**PE3W18867-36**

## Typical Performance Data

## How to Order

Part Number Configuration:

**PE3W18867**

- XX

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- Unit of Measure:  
cm = Centimeters  
<blank> = Inches

- Length

- Base Number

Example: PE3W18867-12 = 12 inches long cable  
PE3W18867-100cm = 100 cm long cable

4.3-10 Male to 4.3-10 Male Low PIM Cable 36 Inch Length Using TCOM-600 Coax with Times Microwave Components from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male to 4.3-10 Male Low PIM Cable 36 Inch Length Using TCOM-600 Coax with Times Microwave Components PE3W18867-36](#)

URL: <https://www.pasternack.com/4.3-10-male-to-4.3-10-male-low-pim-cable-36-inch-length-using-tcom-600-pe3w18867-36-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W18867-36 CAD Drawing

4.3-10 Male to 4.3-10 Male Low PIM Cable 36 Inch Length Using TCOM-600 Coax with Times Microwave Components

